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|---|---|---|-----------------------|
|   | Application No.   | Applicant(s)  |                       |
|   | 09/963,308  | KOBAYASHI ET AL.  |                       |
| Notice of Allowability  | Examiner  | Art Unit  |                       |
|   | Ricky L. Mack   | 2873  |                       |
| The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS (herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGOT OF THE PROPERTY OF THE PROPE | OR REMAINS) CLOSED in<br>or other appropriate commu<br>GHTS. This application is s  | n this application. If not included unication will be mailed in due co  | l<br>ourse. THIS      |
| 1. This communication is responsive to  | •   |   |                       |
| 2. ☑ The allowed claim(s) is/are <u>1-12</u> .  |   |   |                       |
| 3.   The drawings filed on 26 September 2001 are accepted by  | the Examiner.   |   |                       |
| 4.  Acknowledgment is made of a claim for foreign priority unitary and all bloome* closures of the priority documents have 2.  Certified copies of the priority documents have 3.  Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)).  * Certified copies not received:  Applicant has THREE MONTHS FROM THE "MAILING DATE" of noted below. Failure to timely comply will result in ABANDONMITHIS THREE-MONTH PERIOD IS NOT EXTENDABLE.  5.  A SUBSTITUTE OATH OR DECLARATION must be submit INFORMAL PATENT APPLICATION (PTO-152) which give 6.  CORRECTED DRAWINGS (as "replacement sheets") must (a)  including changes required by the Notice of Draftsperson (b)  including changes required by the attached Examiner's Paper No./Mail Date  Identifying indicia such as the application number (see 37 CFR 1.6 each sheet. Replacement sheet(s) should be labeled as such in the paper No.  DEPOSIT OF and/or INFORMATION about the depose attached Examiner's comment regarding REQUIREMENT Foreign (see 20 priority units).   | been received. been received in Application uments have been received of this communication to file ENT of this application.  Ited. Note the attached EXAs reason(s) why the oath or is be submitted.  On's Patent Drawing Review.  Amendment / Comment or is the ender according to 37 CF is it of BIOLOGICAL MATE | on No d in this national stage application a reply complying with the requ AMINER'S AMENDMENT or NO declaration is deficient.  v ( PTO-948) attached in the Office action of the drawings in the front (not the box 1.121(d). ERIAL must be submitted. No | nirements<br>OTICE OF |
| <ul> <li>Attachment(s)</li> <li>1. ☑ Notice of References Cited (PTO-892)</li> <li>2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)</li> <li>3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/08 Paper No./Mail Date 0901</li> <li>4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material</li> </ul>  | 6. ☐ Interview St<br>Paper No./<br>3), 7. ☐ Examiner's  | Ricky L Mack  | ·                     |
| •   |   | Primary Examiner<br>Art Unit: 2873  |                       |

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## REASONS FOR ALLOWANCE

1. Claims 1-12 are allowed.

2. The following is an examiner's statement of reasons for allowance: The prior art taken either singularly or in combination fails to anticipate or fairly suggest the limitations of the independent claim(s), in such a manner that a rejection under 35 U.S.C. 102 or 103 would be proper. The prior art fails to teach a combination of all the claimed features as presented in claim(s) 1-12, wherein an image display apparatus comprises a display device of a reflective type for displaying an image an reflecting illumination light; an eyepiece optical system having a front portion and a rear portion nearer to the display device and a front portion farther from the display device; a light source disposed in a conjugate position with an observation point for emitting the illumination light fed to the display device; and a combiner disposed between the rear and front portion, wherein the rear portion of the eyepiece optical system includes a refractive optical element having a positive power, the front portion of the eyepiece optical system includes a concave reflective surface, and the eyepiece optical system has an exit pupil behind and at a finite distance from the display device, as claimed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee.

Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Conclusion

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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The following references are cited for disclosing an image display apparatus having an image display, an illumination source, and a reflective concave surface, but these references do not disclose a display device of a reflective type for displaying an image an reflecting illumination light; an eyepiece optical system having a front portion and a rear portion nearer to the display device and a front portion farther from the display device; a light source disposed in a conjugate position with an observation point for emitting the illumination light fed to the display device; and a combiner disposed between the rear and front portion, wherein the rear portion of the eyepiece optical system includes a refractive optical element having a positive power, the front portion of the eyepiece optical system includes a concave reflective surface, and the eyepiece optical system has an exit pupil behind and at a finite distance from the display device, as claimed: Hayakawa et al. (6313950 & 6333820), Takeyama (6342871), Travers et al. (6417970), Togino et al. (6445507), Inoguchi et al. (6493146), Takeyama (6512635), Kuramochi et al. (6552854), Jung et al. (6655820), Okuyama et al. (6814442), Takeyama (2001/0022689) and Yamazaki (2002/0060851).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ricky L. Mack whose telephone number is (571) 272-2333. The examiner can normally be reached on Monday-Friday (6:30 AM to 4:00 PM).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Georgia Y. Epps can be reached on (571) 272-2328. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ricky L Mack Primary Examiner Art Unit 2873

RM August 29, 2005